

**Amendments to the Specification:**

For simplicity, all citations to the specification will refer to the paragraph numbers used in the application's Patent Application Publication, US 2004/0160360A1.

Please replace paragraph [0020], with the following amended paragraph:

[0020]        where  $(x_k, y_k, z_k)$  is position coordinate information of a k-th satellite,  $x_k$  is an Earth-Centered, Earth-Fixed (ECEF) X-axis coordinate after the lapse of a predetermined time  $t_k$  indicative of time variance,  $y_k$  is a ECEF Y-axis coordinate after the lapse of  $t_k$ ,  $z_k$  is a ECEF Z-axis coordinate after the lapse of  $t_k$ ,  $x_p$  is an X-axis ~~velocity~~ component of the satellite velocity,  $y_p$  is a Y-axis ~~velocity~~ component of the satellite velocity,  $z_p$  is a Z-axis ~~velocity~~ component of the satellite velocity,  $\Omega$  is an argument of perigee, and  $i_k$  is a variation in inclination angle of a satellite orbit after the lapse of  $t_k$ .